

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P951439

Luminaire Tested: **GALN-SB5C-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25979 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

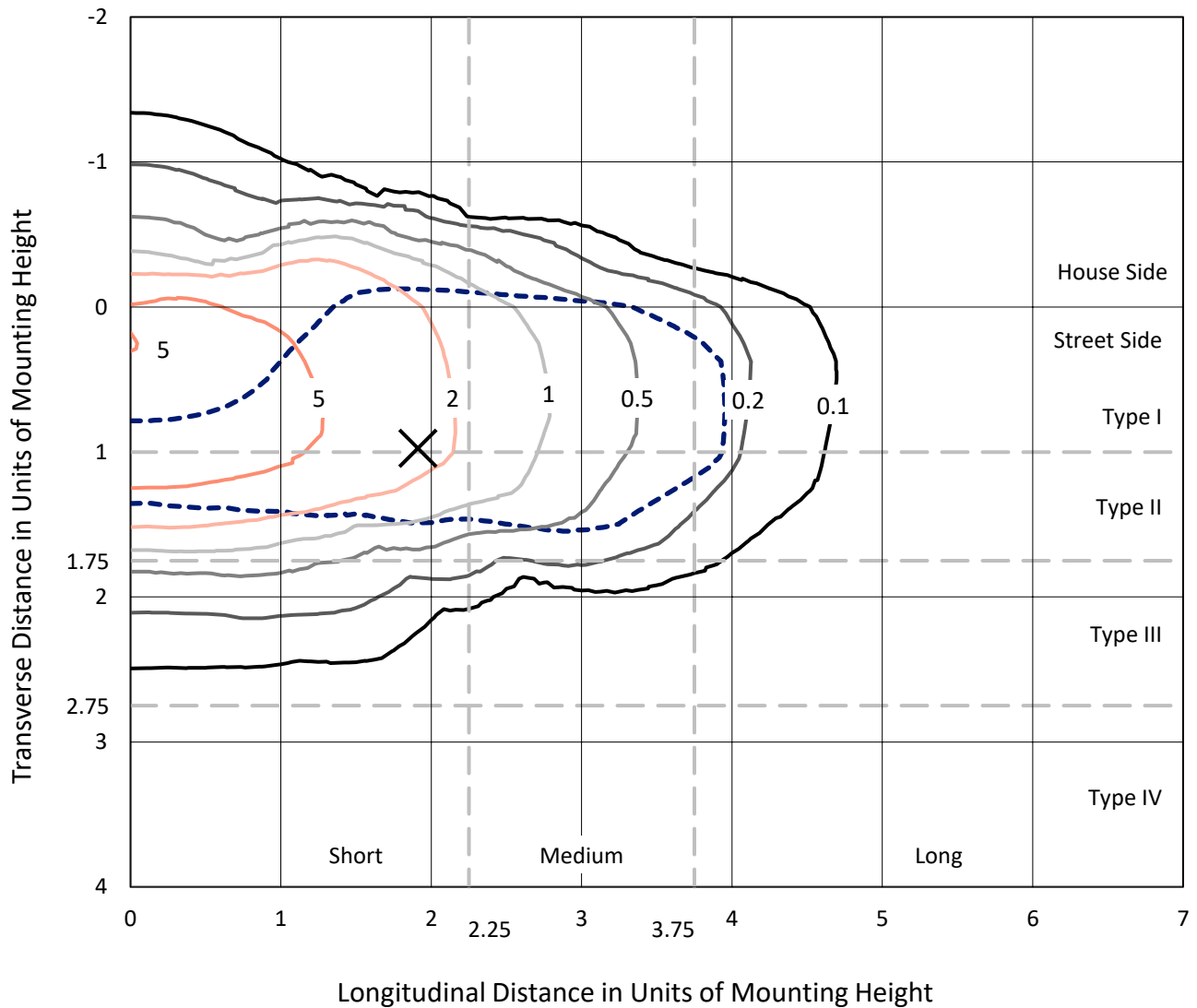
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

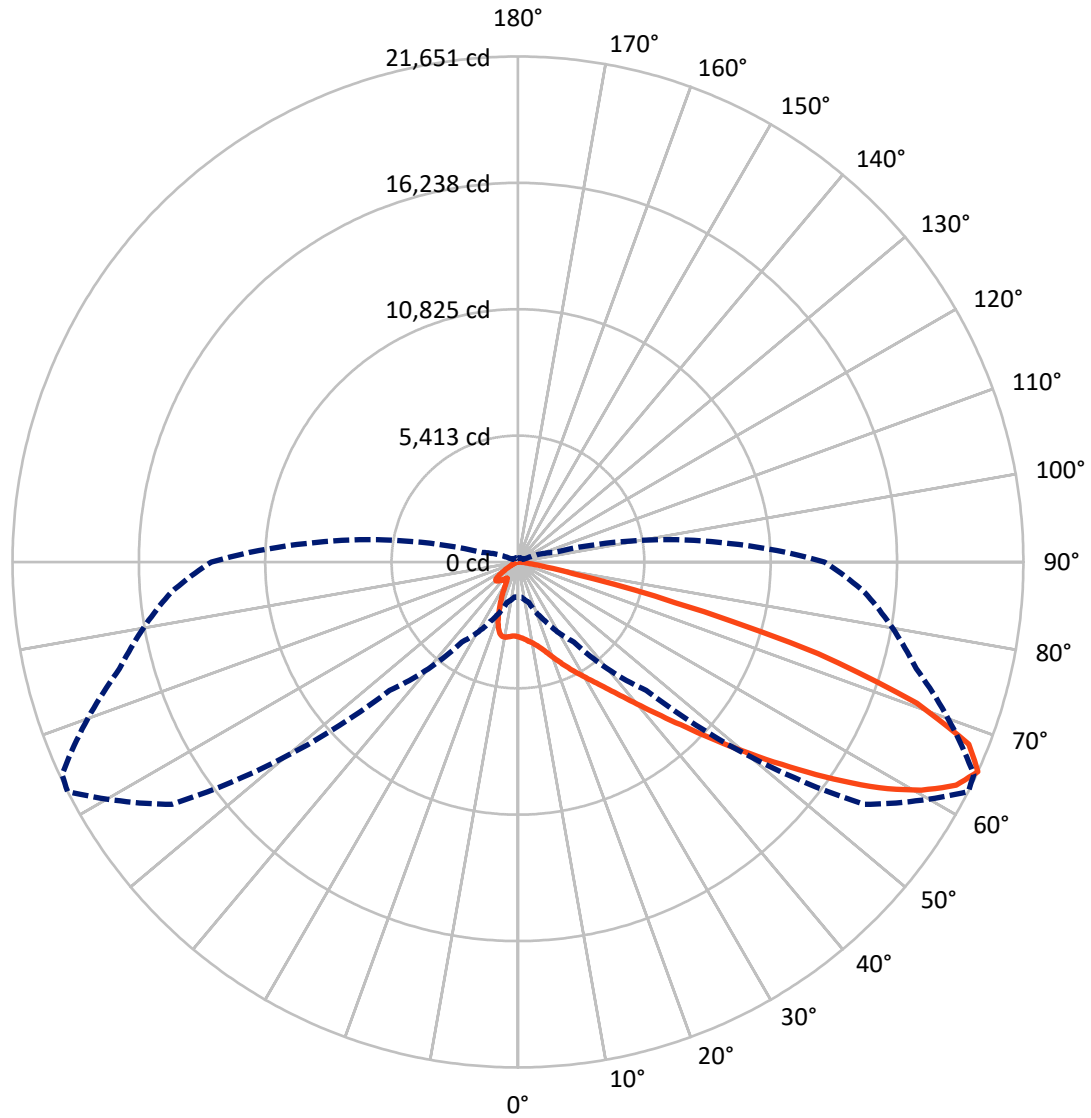
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3818.7	0.0	3818.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22160.3	0.0	22160.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	25979.0	0.0	25979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	1.2
10°-20°	838.2	3.2
20°-30°	1459.5	5.6
30°-40°	2630.6	10.1
40°-50°	5217.4	20.1
50°-60°	7106.9	27.4
60°-70°	5672.7	21.8
70°-80°	2567.0	9.9
80°-90°	184.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25979.0	100.0
0°-180°	25979.0	100.0

Coefficient of Utilization



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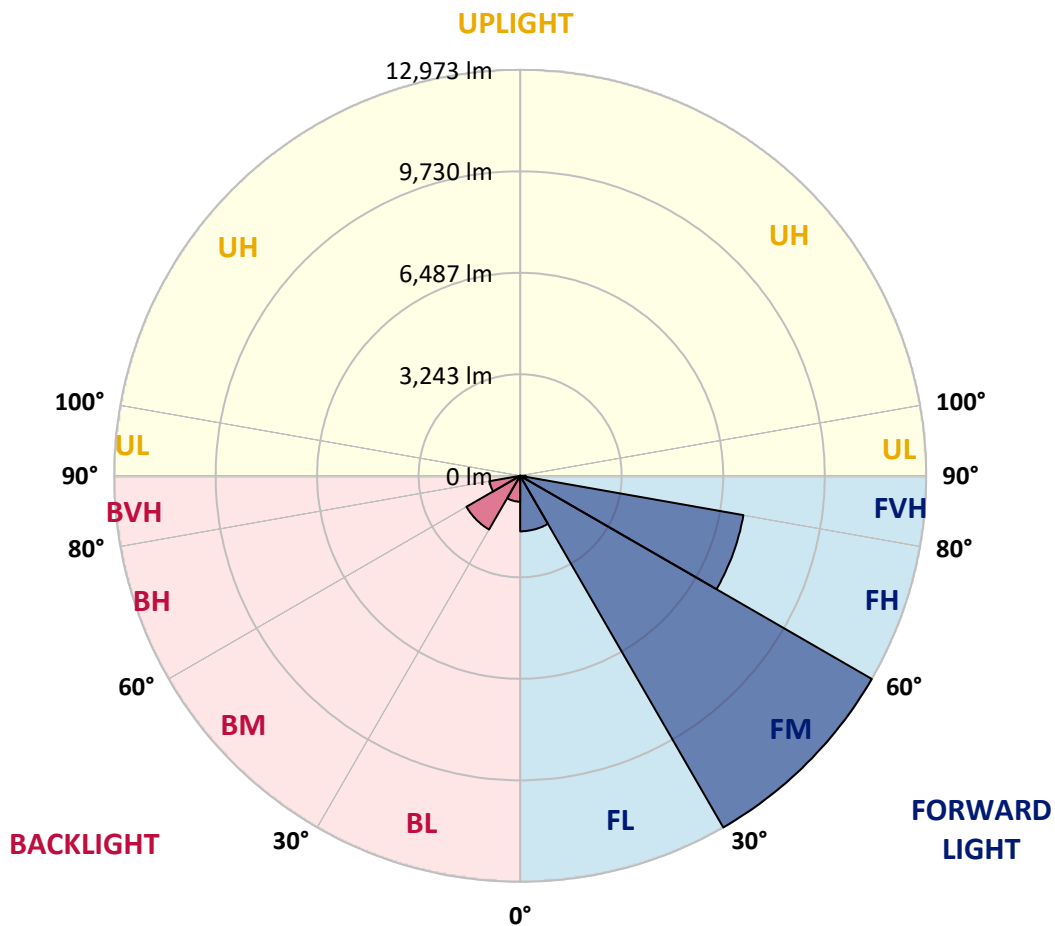
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1773.4	6.8			
FM (30°-60°)	12973.3	49.9			
FH (60°-80°)	7242.8	27.9			G3/7500
FVH (80°-90°)	170.8	0.7			G2/225
BL (0°-30°)	826.4	3.2	B2/1000		
BM (30°-60°)	1981.7	7.6	B2/2500		
BH (60°-80°)	996.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3
2.5°	3281.4	3272.4	3284.9	3279.6	3276.0	3268.9	3265.3	3261.7	3254.6	3249.2
5°	3290.3	3284.9	3297.4	3308.2	3318.9	3329.6	3335.0	3342.1	3335.0	3320.7
7.5°	3215.2	3211.7	3238.5	3270.6	3318.9	3360.0	3404.7	3429.7	3431.5	3426.1
10°	3209.9	3200.9	3227.7	3267.1	3329.6	3402.9	3481.5	3535.2	3542.3	3565.5
12.5°	3293.9	3284.9	3322.5	3365.4	3429.7	3506.6	3603.1	3678.1	3688.9	3721.0
15°	3435.1	3422.6	3465.4	3520.9	3603.1	3690.6	3792.5	3860.4	3869.4	3908.7
17.5°	3599.5	3587.0	3637.0	3696.0	3785.4	3905.1	4023.1	4098.1	4108.9	4133.9
20°	3810.4	3794.3	3833.6	3887.2	3982.0	4124.9	4266.1	4373.4	4371.6	4371.6
22.5°	4055.2	4030.2	4064.2	4107.1	4196.4	4369.8	4557.4	4684.3	4684.3	4634.3
25°	4318.0	4292.9	4330.5	4369.8	4448.4	4645.0	4864.9	5022.1	5029.3	4943.5
27.5°	4646.8	4614.6	4643.2	4689.7	4736.2	4936.3	5197.3	5379.6	5383.2	5250.9
30°	5279.5	5188.3	5099.0	5048.9	5070.4	5268.8	5547.6	5749.5	5767.4	5585.1
32.5°	6437.6	6419.7	6105.2	5694.1	5479.7	5626.2	5939.0	6182.0	6192.8	5958.6
35°	8237.4	8215.9	7710.1	6927.3	6228.5	6105.2	6414.4	6702.1	6695.0	6430.5
37.5°	10385.6	10366.0	9699.3	8652.0	7520.7	6829.0	7027.4	7329.5	7374.1	7027.4
40°	12221.1	12147.8	11726.0	10716.3	9236.4	8030.0	7899.6	8099.7	8146.2	7735.2
42.5°	13611.6	13549.0	13334.6	12703.7	11313.2	9806.6	8927.2	9004.1	9055.9	8562.6
45°	14331.8	14317.5	14403.3	14344.3	13429.3	11987.0	10396.3	10076.4	10096.1	9479.5
47.5°	14433.7	14426.6	14818.0	15372.0	15248.7	14446.2	12281.9	11413.3	11343.6	10514.3
50°	13833.2	13818.9	14569.5	15607.9	16464.0	16512.3	14423.0	12919.9	12766.2	11584.9
52.5°	11915.5	11911.9	13145.1	14873.4	16891.2	18320.9	16539.1	14574.9	14317.5	12718.0
55°	9168.5	9234.6	10648.3	12691.2	16111.9	19191.3	18438.9	16412.2	16017.2	13858.2
57.5°	6494.8	6591.3	7988.9	9808.3	13695.6	18676.6	19723.9	18253.0	17827.7	14994.9
60°	3488.7	3574.5	4973.9	7145.4	10189.0	16757.1	20401.3	19850.8	19448.7	16074.4
62.5°	2078.6	2107.1	2686.2	4612.9	6891.6	12802.0	20113.5	21067.9	20737.3	16980.5
65°	1492.3	1497.7	1789.0	2816.7	4183.9	7778.0	18095.8	21650.6	21548.7	17663.2
67.5°	1256.4	1252.9	1374.4	1871.2	2850.6	3896.2	13868.9	20826.6	21259.2	18095.8
70°	1077.7	1083.1	1226.0	1370.8	2142.9	2205.4	6895.2	18133.3	19055.5	18210.1
72.5°	802.5	820.3	952.6	1249.3	1617.4	1517.4	2380.6	13445.4	15112.9	17157.5
75°	566.6	575.5	670.2	1050.9	1206.4	1104.5	1215.3	6950.6	9088.1	13154.0
77.5°	436.1	452.2	507.6	734.6	1188.5	775.7	743.5	2405.6	3696.0	7946.0
80°	235.9	264.5	366.4	530.8	834.6	548.7	368.2	958.0	1252.9	3715.7
82.5°	121.5	135.8	255.6	382.5	475.4	479.0	182.3	398.6	516.5	1147.4
85°	48.3	59.0	171.6	210.9	244.9	235.9	82.2	160.9	185.9	318.1
87.5°	10.7	17.9	62.6	48.3	46.5	50.0	19.7	37.5	35.7	37.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3206.3	0°	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3	3206.3
3227.7	2.5°	3226.0	3218.8	3199.2	3177.7	3152.7	3138.4	3129.4	3127.7	3115.2	3106.2
3299.2	5°	3279.6	3272.4	3234.9	3190.2	3142.0	3104.4	3068.7	3036.5	2990.0	2981.1
3402.9	7.5°	3386.8	3367.2	3306.4	3245.6	3154.5	3045.4	2913.2	2761.3	2625.4	2584.3
3540.5	10°	3519.1	3492.3	3415.4	3308.2	3106.2	2809.5	2489.6	2192.9	1957.0	1890.9
3703.2	12.5°	3669.2	3646.0	3544.1	3345.7	2904.3	2366.3	1876.6	1508.4	1279.7	1222.5
3876.5	15°	3847.9	3814.0	3672.8	3288.5	2543.2	1798.0	1288.6	1070.6	988.3	977.6
4074.9	17.5°	4037.4	3982.0	3787.2	3083.0	2057.1	1277.9	995.5	932.9	897.2	886.5
4275.1	20°	4210.7	4139.2	3855.1	2772.0	1537.0	995.5	891.8	850.7	818.6	806.0
4475.2	22.5°	4384.1	4282.2	3855.1	2348.4	1152.8	882.9	818.6	781.0	743.5	727.4
4689.7	25°	4564.6	4428.8	3787.2	1876.6	927.6	809.6	748.9	707.7	675.6	655.9
4893.4	27.5°	4739.7	4552.1	3631.7	1429.8	825.7	745.3	684.5	645.2	614.8	600.5
5115.1	30°	4906.0	4673.6	3413.6	1084.9	759.6	682.7	625.5	591.6	561.2	546.9
5402.8	32.5°	5131.2	4827.3	3181.3	890.0	702.4	623.7	571.9	539.7	512.9	502.2
5776.3	35°	5443.9	5054.3	2981.1	874.0	654.1	575.5	523.7	493.3	466.5	457.5
6258.9	37.5°	5887.2	5420.7	2875.7	981.2	614.8	532.6	484.3	452.2	427.1	420.0
6871.9	40°	6434.0	5917.5	2932.9	1088.4	588.0	495.1	448.6	416.4	395.0	386.0
7576.1	42.5°	7082.8	6530.6	3249.2	1170.6	570.1	462.9	414.6	378.9	364.6	361.0
8375.0	45°	7828.1	7204.3	3733.5	1258.2	541.5	432.5	380.7	353.9	343.1	341.4
9243.6	47.5°	8675.2	7944.3	4294.7	1367.2	512.9	403.9	353.9	336.0	327.1	323.5
10149.7	50°	9515.2	8689.5	4872.0	1428.0	489.7	377.1	332.4	318.1	311.0	309.2
11107.7	52.5°	10394.6	9456.3	5338.5	1370.8	470.0	355.7	314.6	303.8	296.7	294.9
11990.6	55°	11232.8	10076.4	5418.9	1163.5	430.7	334.2	294.9	289.5	280.6	280.6
12886.0	57.5°	11954.8	10387.4	4850.6	854.3	391.4	302.0	275.2	269.9	262.7	260.9
13693.8	60°	12617.9	10298.0	3744.3	575.5	348.5	269.9	250.2	246.6	239.5	230.6
14396.2	62.5°	12991.4	9904.9	2561.1	375.3	305.6	235.9	221.6	219.8	203.7	185.9
14916.3	65°	13132.6	9097.0	1597.8	273.4	255.6	202.0	191.2	187.7	164.4	144.8
15211.2	67.5°	13009.3	7767.3	806.0	216.3	202.0	168.0	157.3	157.3	141.2	123.3
15193.3	70°	12516.0	5822.8	339.6	173.4	155.5	128.7	128.7	135.8	119.7	100.1
14405.1	72.5°	11445.5	3917.6	180.5	132.3	116.2	91.1	105.4	110.8	94.7	75.1
11790.4	75°	9098.8	2389.5	125.1	98.3	73.3	64.3	80.4	84.0	64.3	50.0
8083.7	77.5°	6223.2	1372.6	84.0	62.6	46.5	37.5	55.4	51.8	34.0	23.2
3116.9	80°	2732.7	571.9	48.3	28.6	17.9	14.3	19.7	14.3	10.7	7.1
427.1	82.5°	319.9	134.0	17.9	10.7	7.1	3.6	1.8	0.0	0.0	0.0
130.5	85°	66.1	16.1	8.9	3.6	1.8	0.0	0.0	0.0	0.0	0.0
23.2	87.5°	12.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
3206.3
3115.2
2977.5
2564.7
1865.9
1206.4
966.9
881.1
798.9
718.5
648.8
600.5
548.7
502.2
457.5
418.2
384.3
361.0
339.6
323.5
309.2
294.9
278.8
259.1
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182.3
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